PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
P017597WO	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)
PCT/IB2004/003273	24/09/2004	01/10/2003
Applicant		
DANISCO A/S		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Insmitted to the International Bureau.	g Authority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited i	n this report.
	international search was carried out on the ess otherwise indicated under this item.	ne basis of the international application in the
The international this Authority (Ru		translation of the international application furnished to
b. With regard to any nucle d	otide and/or amino acid sequence disc	losed in the international application, see Box No. I.
2. X Certain claims were four	nd unsearchable (See Box II).	
3. X Unity of invention is lace	king (see Box III).	
4. With regard to the title,		
the text is approved as su	bmitted by the applicant.	
X the text has been establis	hed by this Authority to read as follows:	
	DE EFFECTS ASSOCIATED WINISMS OF THE GENUS BIFIL	TH NON STEROIDAL ANTI-INFLAMMATORY OOBACTERIUM
5. With regard to the abstract,	hanista d house a sanction of	
X the text is approved as su	• • • • • • • • • • • • • • • • • • • •	uthority as it appears in Box No. IV. The applicant
		search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be p	ublished with the abstract is Figure No. $_$	1
as suggested by t	he applicant.	
	s Authority, because the applicant failed t	
	s Authority, because this figure better cha	aracterizes the invention.
b. none of the figures is to be	e published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/003273

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K35/74 A61K31/19

A61P29/00 A61K31/205

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $I\,PC\,\,7\,\,$ A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, MEDLINE, EMBASE

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/010297 A (ALIMENTARY HEALTH LIMITED; COLLINS, JOHN, KEVIN; O'SULLIVAN, GERALD, C) 6 February 2003 (2003-02-06) page 2, lines 15-17 page 3, column 28 - page 4, column 11 page 31, lines 21-24	4,8-15, 17-19, 21, 23-27, 29-32,34

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 9 March 2005	Date of mailing of the international search report 3 0. 05. 2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer ALCONADA RODRIGUEZ

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/003273

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	UEJIMA M ET AL: "ROLE OF INTESTINAL BACTERIA IN ILLEAL ULCER FORMATION IN RATS TREATED WITH A NONSTEROIDAL ANTIINFLAMMATORY DRUG" MICROBIOLOGY AND IMMUNOLOGY, TOKYO, JP, vol. 40, no. 8, 1996, pages 553-560, XP008008800 ISSN: 0385-5600 table 4 page 559, left-hand column, paragraph 2 page 556, right-hand column, last paragraph - page 558, left-hand column, paragraph 1	5-10, 22-27, 29-31,34
X	US 5 922 375 A (LUCHANSKY ET AL) 13 July 1999 (1999-07-13) column 1, line 65 - column 2, line 45 column 5, lines 2-5	

International application No. PCT/IB2004/003273

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 17-19 and 21-27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.:
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
. 🗀 .	
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-15, 17-27, 29-32 and 34 (in part)
Remark o	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15, 17-27, 29-32 and 34 (in part)

Use of a microorganism for the manufacture of a medicament for use in increasing the amount of COX-1 mRNA in a cell and for the treatment of inflmmatory and cancer diseases, or to prevent side-effects associated with NSAIDs, pharmaceutical preparations comprising a microorganism and an NSAID, methods for treatment of inflammatory and cancer diseases or for preventing side effects associated with NSAID administration using said microorganism, pharmaceutical packs comprising a microorganism and a NSAID or a microorganism and betaine.

2. claims: 1-15, 17-27, 29-32 and 34 (in part)

As invention 1 but wherein the pharmaceutical agent is acetate (a microorganism metabolite).

3. claims: 1-15, 17-27, 29-32 and 34 (in part)

As invention 1 but wherein the pharmaceutical agent is lactate (a microorganism metabolite)

4. claims: 16, 28, 33 and 35-39

As invention 1 but wherein the pharmaceutical agent is a combination of Bifidobacterium and/or a metabolite thereof and betaine.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IB2004/003273

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 03010297	Α	06-02-2003	BR	0211442	A	09-11-2004
			CA	2454803	A1	06-02-2003
			CN	1561387	Α	05-01-2005
			EΡ	1409644	A1	21-04-2004
			WO	03010297	A1	06-02-2003
			ΙE	20020626	A1	19-03-2003
			JР	2005508617	Т	07-04-2005
			MX	PA04000738	Α	08-07-2004
			US	2003092163	A1	15-05-2003
			ZA	200400555	Α	21-09-2004
US 5922375	Α	13-07-1999	US	5902743	Α	11-05-1999